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V.C.	6,120,688	09/19/00	Daly et al.	210	650	_
1. c	6,027,649	02/22/00	Benedek et al.	210	639	
1.01	6,020,210	02/01/00	Miltenyi	436	526	<u> </u>
1.c.	5,900,146	05/04/99	Ballard et al.	210	222	_
λ·c.	5,728,302	03/17/98	Connor et al.	210	679	
l.c.	5,639,377	06/17/97	Banham et al.	210	677	
l·c.	5,595,666	01/21/97	Kochen et al.	210	679	
ke.	5,547,585	08/20/96	Shepherd et al.	210	673	
1. c ⋅	5,464,530	11/07/95	Stivers	210	141	✓
1.c.	5,364,534	11/15/94	Anselme et al.	210	650	
∕{\·c.	5,248,424	09/28/93	Cote et al.	210	636	
X.C. AA	5,236,595	08/1993	Wang et al.	210	669	
l.c.	5,182,023	01/26/93	O'Connor et al.	210	652	
2-6.	4,806,244	02/21/89	Guilhem	210	638	
L.C. AB	4,724,08 2,2 ,	02/1988	Boom	210	679	
I.C. AC	4,693,832	09/1987	Hurst	210	754	
A. O. AD	4,670,154	06/1987	Carson et al.	210	189	_
dic.	4,648,976	03/10/87	Chen	210	678	~
V.C. AE	4,632,745	12/1986	Guiffrida et al.	204	632	
kc.	4,329,225	05/11/82	Davis et al.	210	96.1	
N.C.	4,314,905	02/09/82	Etzel et al.	210	670	
L.C. AF	4,312,956	01/1982	Chong et al.	210	686	
X·c.	4,279,756	07/21/81	Weiss et al.	210	667	<u> </u>
S.c.	3,996,131	12/07/76	Conn	210	23	
A.c. AG	3,560,378	02/1971	Weiss et al.	210	679	
C. AH	2,697,724	12/1954	Collier	210	189	
L.C. AI	1,190,863	07/1916	Corne et al.	210	521	
1-c-	2002/0121479	09/09/09	Mueller etal.	210	638	

FOREIGN PATENT DOCUMENTS

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4	Drikes M	et al. (2002) "Re	moval of natur	al organ	c matter - a	fresh			
K.C.	Dilkas, Wi	Drikas, M. et al. (2002), "Removal of natural organic matter - a fresh							
<u> </u>	approach, "Water Sci Technol.: Water Supply 2(1):71-79 Eldridge, R.J. (1995), "Moving-Bed Ion Exchange with Magnetic Res								
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X.C.	Rev. Chen	n. Eng. 11(3):185-	228						